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VETERINARY MEDICINE, Instruments and Apparatus :  
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By Appointment to

HER MAJESTY'S GOVERNMENT; THE HONOURABLE COUNCIL OF INDIA; THE CROWN  
AGENTS FOR THE COLONIES; FOREIGN GOVERNMENTS; ROYAL  
VETERINARY COLLEGE, ETC., ETC.

LIST

OF

VETERINARY SPECIALITIES

MANUFACTURED BY

ARNOLD & SONS,

31, WEST SMITHFIELD,

AND

1, 2 & 3, GILTSPUR STREET, LONDON

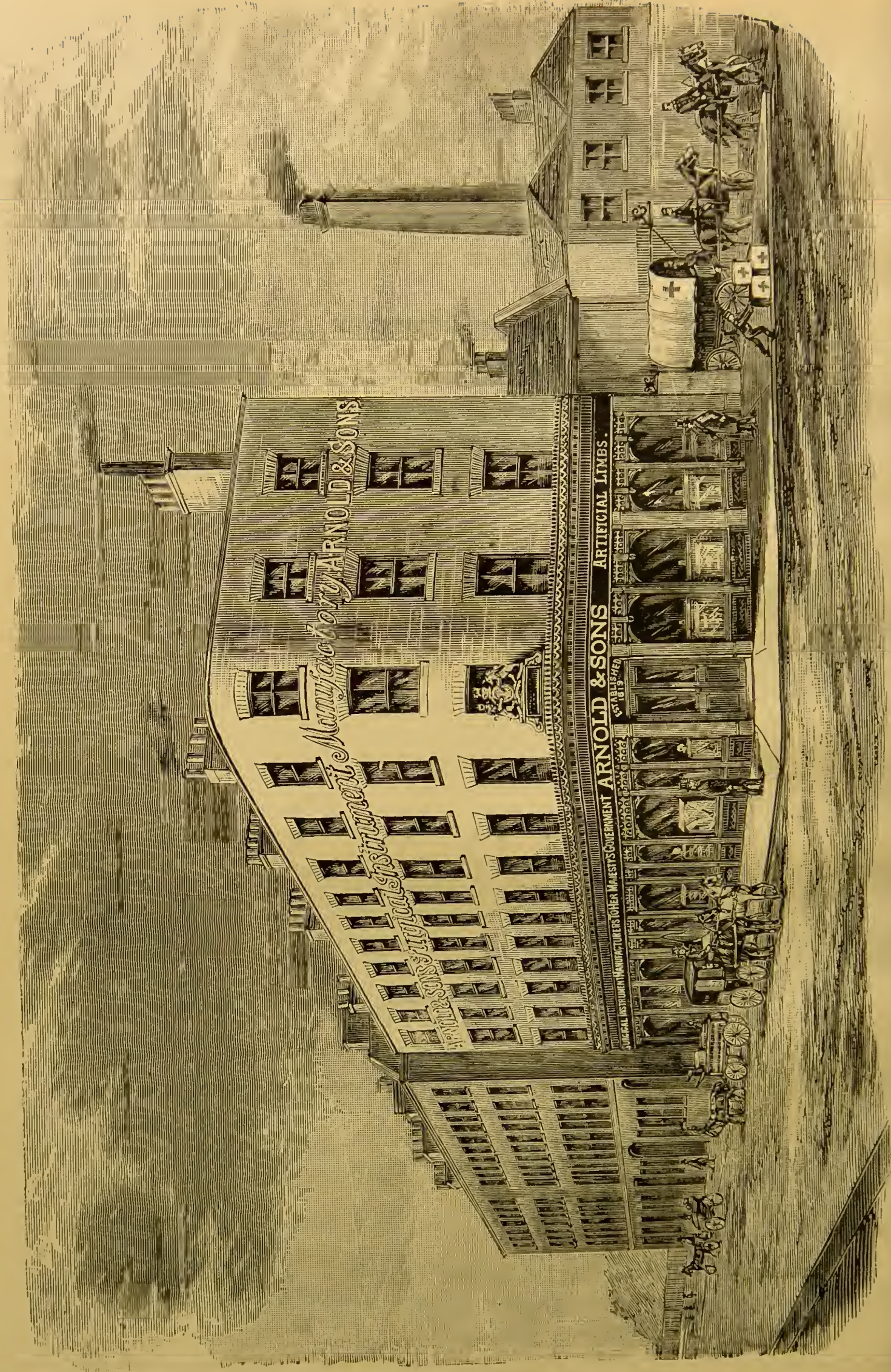
*(Opposite St. Bartholomew's Hospital).*

WAREHOUSES—15 & 16, GILTSPUR STREET, E.C.

ESTABLISHED 1819.

TELEGRAPHIC ADDRESS: "INSTRUMENTS, LONDON." TELEPHONE No. 6518.





*Manufacture of Musical Instruments*  
**ARNOLD & SONS**

**ARTIFICIAL LIMBS**  
ESTABLISHED 1819

**GOVERNMENT**  
SPECIAL INSTRUMENT MANUFACTURERS TO HER MAJESTY



# HEATH'S PATENT IMPROVED ELBOW PAD.

FOR THE PREVENTION AND CURE OF "CAPPED ELBOW."



Extract from *The Veterinarian*, June, 1895: "The annexed is an illustration of a new india-rubber pad, invented and patented by Mr. Heath, and it is, in my opinion, the best of the kind ever used for the prevention, as well as the cure, of a very troublesome affection, viz., 'Capped Elbow.'

"I have had some considerable experience of its use, and in every case where I have recommended it the results have been most satisfactory. Its application is of the simplest, only requiring to be buckled on the foot, being kept in position by another strap, which passes under the shoe. The pad is at once the simplest and most valuable of its kind that has yet been introduced to the profession.

"Messrs. ARNOLD & SONS, of West Smithfield, London, have been appointed the sole agents for the sale of these pads.

"Yours truly, J. McKENNA, F.R.C.V.S., Huddersfield."

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*Vide The Veterinary Record*, Sept., 1895.

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## COPIES OF LETTERS RECEIVED.

I am very pleased indeed with your patent rubber protection for "Capped Elbow." I have found it of invaluable service in the cure of the disease, and always recommend it in treatment of same.

FRANK HALLILAY, M.R.C.V.S.

Having used Mr. Heath's Patent Elbow Pad for a considerable time, I can testify to their usefulness and efficiency. They are simple in construction, durable, and easily applied.

HENRY COOPER, M.R.C.V.S.

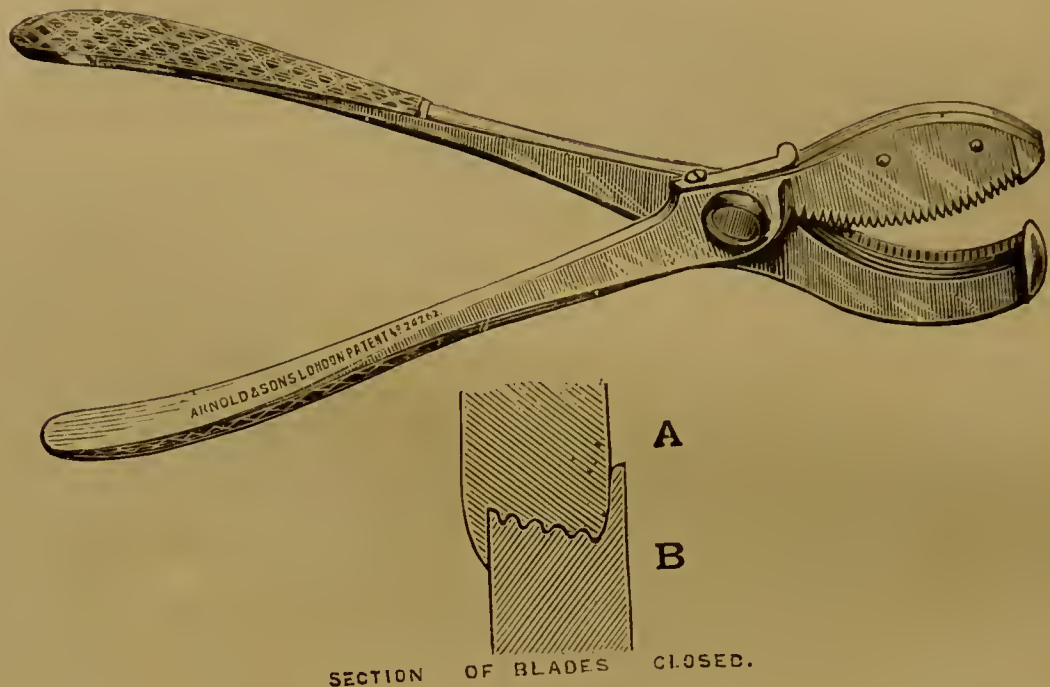
Made in five sizes each No. 1, 7/6; Nos. 2 or 3, 8/6; No. 4, 9/6; No. 5, 10/6



# “RELIANCE” CASTRATOR.

(PATENTED.)

THE ONLY PERFECT INSTRUMENT FOR CASTRATING.



Extract from *The Veterinary Journal*, March, 1896 : “ A new form of instrument for castrating has been patented, which is very simple, and possesses many advantages over all existing castrators. It has been practically tested, and proved to be the most simple and effective instrument as yet brought before the notice of the profession.”

Extract from *The Veterinarian*, March, 1896 : “ The above illustration shows a new and simple form of instrument for castrating.”

Extract from *The Veterinary Record*, Feb. 22nd, 1896 : “ It has longitudinal grooves deeply cut, both on the upper and lower blades, which, when closed, fit accurately into each other, thereby squeezing the cord sufficiently to prevent hæmorrhage, see Figs. A and B.

“ The upper and lower blades are curved, the former having a series of small sharp teeth, so that, when in the act of closing the instrument, by means of these teeth it is impossible for the cord to slip, and is cleanly cut and clamped with the one action. It also has a very simple arrangement whereby you can obtain parallel pressure throughout the whole length of the blades, this being a great advantage over instruments now in use. The upper blade having teeth will not blunt like the ordinary instruments.

“ It is nickel-plated, and fitted with a thumb-screw, so that it can be taken to pieces for cleaning purposes.

“ The patentees and manufacturers are Messrs. ARNOLD & SONS, of West Smithfield, London.”

Price, complete, nickel-plated ... .. £1 18 6



## IMPROVED SHOEING CASE.

(PATENTED.)

SUGGESTED BY PROFESSOR HOBDAY.



Extract from *The Veterinarian*, April, 1895: "The above contains a complete set of shoeing knives of French pattern, including three Renettes, in double 'sage,' right and left cartilage knives, the whole fitting into one handle. The handle itself is patented, and can be very readily adjusted; all that is necessary is to slip the knife required for use into the socket of the handle and turn a screw at the bottom. It is then firmly fixed, and there is positively no danger to the operator from the blade slipping out.

"The handle, made of white metal nickelled, can be rendered thoroughly antiseptic by merely turning a small screw before placing it in any solution; this exposes the centre socket to view.

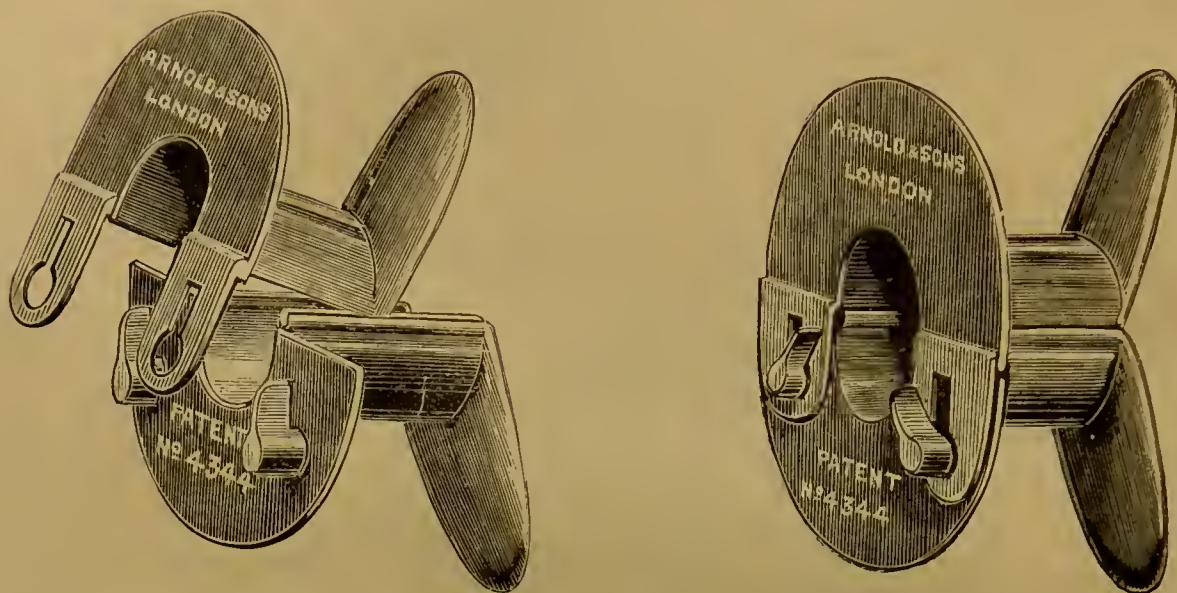
"I have for some time been convinced of the advantage of the French shoeing knives for the members of our profession over the ordinary blacksmith's drawing knife, both as regards appearance, utility, and neatness, and feel sure that if they were more prominently brought forward they would certainly be more generally used."

Price, complete, in leather case ... .. £1 18 6



## “RELIANCE” TRACHEOTOMY TUBE.

(PATENTED.)



Extract from *The Veterinarian*, May, 1894: “This Tracheotomy Tube—a modification of the tubes of Field and Jones—is made and patented by Messrs. ARNOLD & SONS, West Smithfield, London, and possesses the following advantages: First—A sliding arrangement whereby the two halves must necessarily be held securely together. Second—Only one shield is required, which considerably reduces the weight of the tube. Third—Rounded on flanged lips, which cannot irritate the trachea. Fourth—Simple and secure fastening, which renders accidental unfastening impossible. Fifth—Constructed throughout of a metal which does not corrode or oxidise.”

Extract from *The Veterinary Journal*, May, 1894: “Tracheotomy tubes hitherto constructed have been difficult to insert, and insecure when introduced. This tracheotomy tube is a modification of Field and Jones’s, but possessing several important advantages. It is made and patented by Messrs. ARNOLD & SONS, of West Smithfield, London, and we append a copy of a letter received.

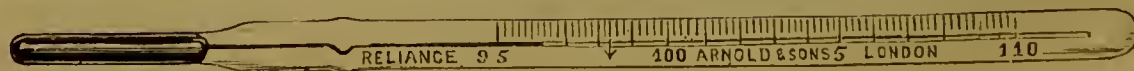
“DEAR SIRS,—I am much pleased with your new Tracheotomy Tube. Its simple construction allows it to be easily introduced, keeps well in position, light, and besides, does not cause so much pain in a freshly operated wound. I think you have made quite a first-class instrument, and one I should certainly purchase for myself.

“I would suggest your bringing it before the notice of the profession.””

*Vide The Veterinary Record*, June 30th, 1894.

|                        |     |     |     |          |         |
|------------------------|-----|-----|-----|----------|---------|
| Made in four sizes     | ... | ... | ... | ... each | £0 15 0 |
| With gauze cap or plug | ... | ... | ... | ... „    | 0 17 6  |

## NEW “RELIANCE” THERMOMETER.



Extract from *The Veterinarian*: “Messrs. ARNOLD & SONS, always on the alert to improve, have just produced a new thermometer, in which the constriction, formerly the weakest part of the whole thermometer, is made the strongest. So many thermometers break at this point, and the cost of replacing them is so considerable, that practitioners will gladly welcome the new form. Despite the improvement, the price appears not to have been raised.”

|   |     |     |        |
|---|-----|-----|--------|
| Price, with indestructible index, in metal case | ... | ... | £0 3 0 |
| Ditto magnified ditto ditto                     | ... | ... | 0 4 6  |



# NEW HOBBOLES FOR CASTING AND RESTRAINING HORSES.

(JAMES'S PATENT.)

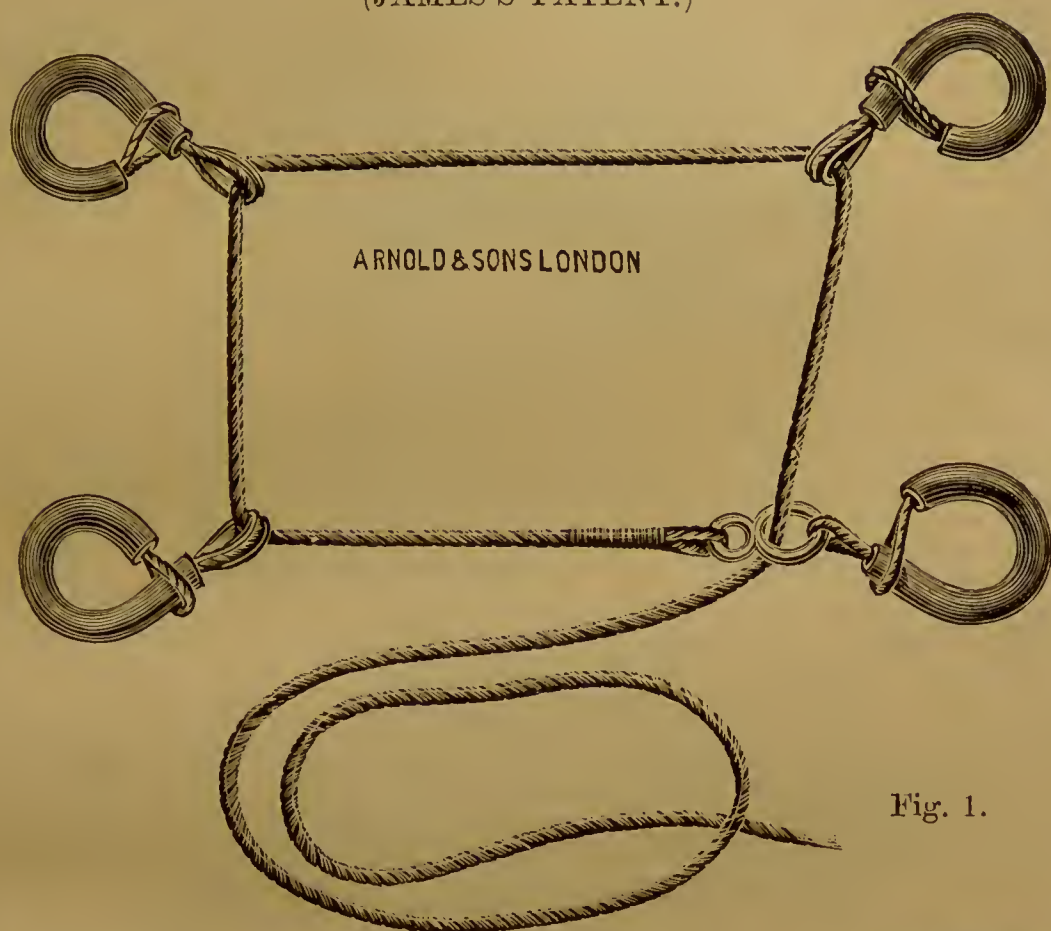


Fig. 1.

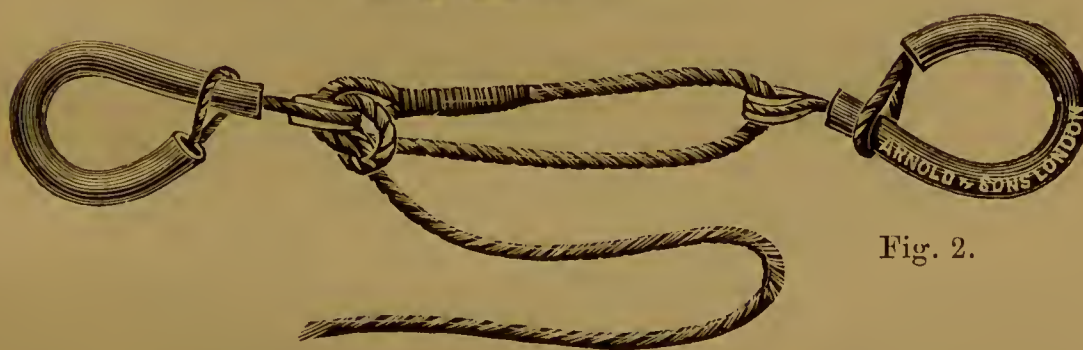


Fig. 2.

Extract from *The Veterinarian*, June, 1894: "I desire to bring to the notice of the profession a novel set of casting and restraining hobbles which I have invented, and for which a provisional patent has been obtained.

"The hobbles are of rope encased in rubber tubing. Made of the best materials, they are portable, extremely light, not bulky, very simple and reliable, and as all parts likely to chafe are protected, they are very durable. The rubber padding prevents any possible injury to the animal. The cross hobbles have the further advantage that when once adjusted they will not slip below the knee or hock. Messrs. ARNOLD & SONS, West Smithfield, London, are the sole agents."

*Vide The Veterinary Journal*, June, 1894. *Vide The Veterinary Record*, June 2nd, 1894.

**PORTABLE**—weigh under 5 lbs., and occupy very little space.

**RELIABLE**—only best materials used in their manufacture.

**DURABLE**—all parts liable to chafe thoroughly protected.

*The Indiarubber padding prevents any injury to the animal.*

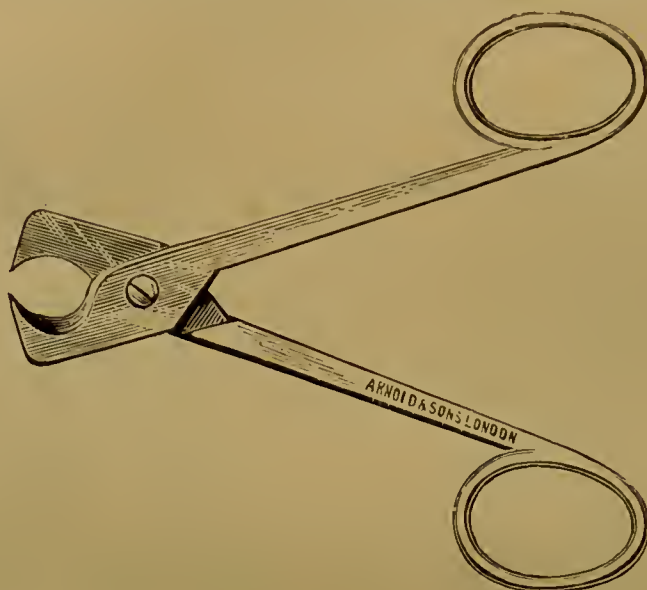
*The cross hobbles, when once adjusted, do not slip below the knee or hock.*

|  |     |     |     |    |    |   |
|--|-----|-----|-----|----|----|---|
| Price, Casting Hobbles, complete set, Fig. 1 | ... | ... | ... | £1 | 1  | 0 |
| Ditto, Double Cross Hobbles                  | ... | ... | ... | 1  | 1  | 0 |
| Ditto, Single ditto Fig. 2                   | ... | ... | ... | 0  | 10 | 6 |



**IMPROVED DOG NAIL NIPPERS.**

SUGGESTED BY PROFESSOR HOBDAY.

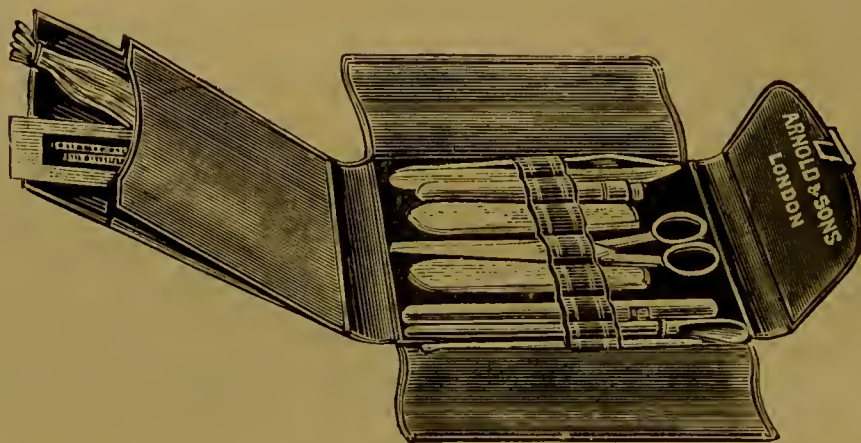


Price, nickel-plated ... .. £0 3 6

**STUDENT'S POCKET CASE.**

(REGISTERED.)

SUGGESTED BY PROFESSOR HOBDAY.



Extract from *The Veterinary Record*, October, 1895: "The drawing here represented is that of an instrument case which has been made at my suggestion by Messrs. ARNOLD & SONS, of West Smithfield, London, and which I think deserves to be brought under the notice of your readers. The case has been registered as 'The Student's Pocket Case,' and is particularly intended for use at the Free Clinique.

"The design of the case is a little different to that usually made, the flaps not folding over one another as is general, but opening something like a reporter's note book. It is specially made flat in order that it can be carried without inconvenience in the breast pocket; it certainly occupies no more space than an ordinary pocket book, and contains a clinical thermometer, ebony caustic holder, Symes abscess knife, pocket scalpel (the handles of these latter two being flat and of white metal), dressing forceps, probe, director, needles, and suture silk."

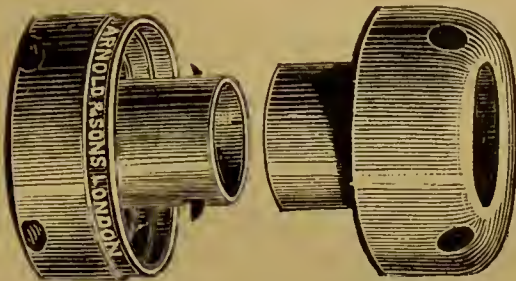
*Vide The Veterinarian*, April, 1895.

Price, complete, in leather case ... .. £1 1 0



MURPHY'S BUTTON FOR ENTERECTOMY.

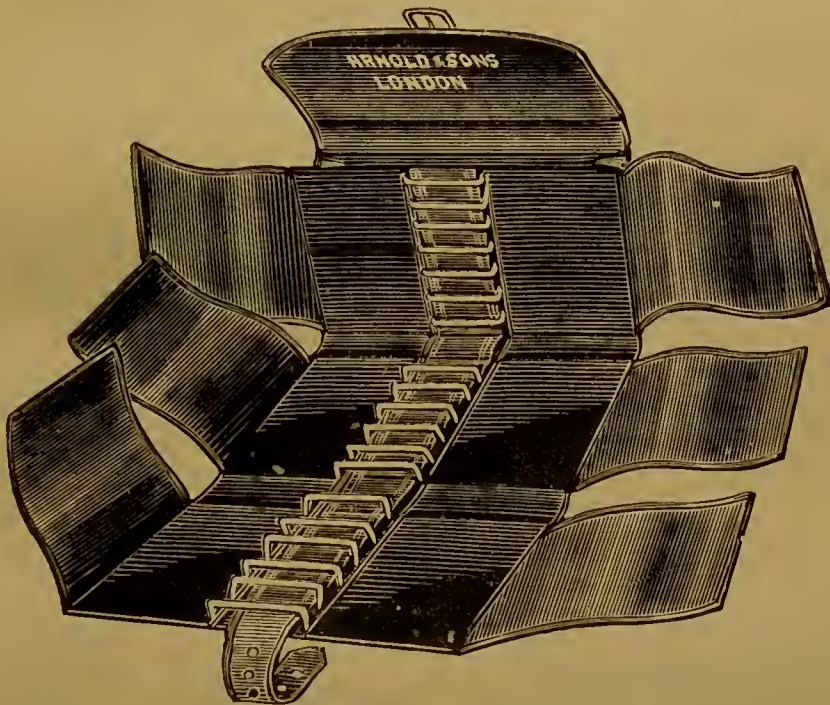
AS USED BY PROFESSOR MACQUEEN.



Price ... .. £1 10 0

IMPROVED POCKET CASE.

SUGGESTED BY W. GRAHAM GILLAM, M.R.C.V.S.



Extract from *The Veterinarian*, May, 1895: "I thought it would be of interest to bring before the notice of the readers of *The Veterinarian* a new style of instrument case made for me by Messrs. ARNOLD & SONS, of West Smithfield, London. It is one which I think will be specially serviceable for country practitioners."

Extract from *The Veterinary Journal*, June, 1895: "It possesses the following advantages:— 1st. By means of a strap running through metal loops, the leather loops which hold the instruments can be enlarged or made smaller to accommodate any sized pocket instrument. 2nd. Being lined with leather (and not with the usual silk) it is easily kept clean. 3rd. By withdrawal of the strap from the metal loops, all corners in which dirt would be likely to accumulate can be thoroughly cleaned.

"It is made of leather and is stronger and more durable than the ordinary pocket cases, it measures when closed 8 in. by 4 in. by 1 in."

Vide *The Veterinary Record*, October, 1895.

Price, with two folds ... .. £0 10 6  
Ditto three folds ... .. 0 15 0



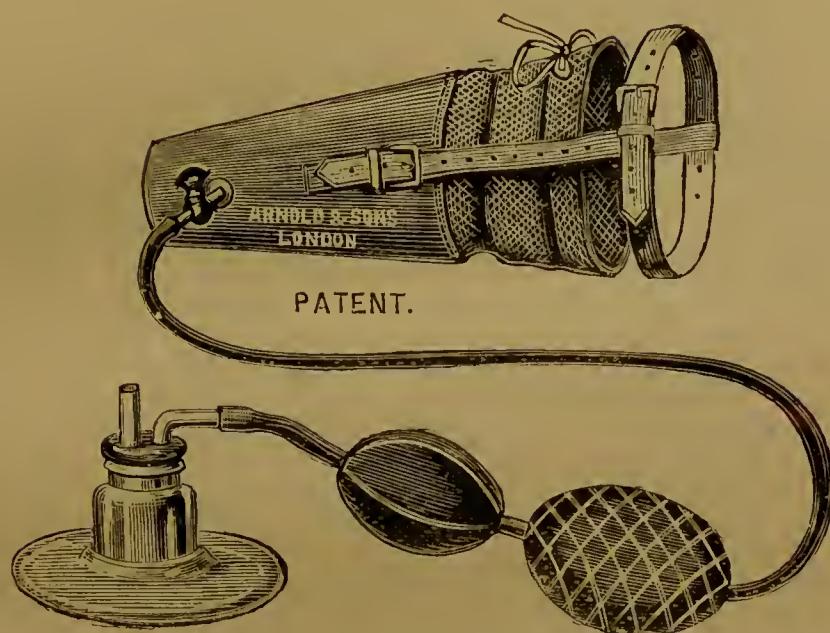




# AN ANÆSTHETIC INHALER FOR SMALL ANIMALS.

(PATENTED.)

SUGGESTED BY PROFESSOR HOBDAY.



Above is a sketch of an apparatus for the administration of anæsthetic and other volatile vapours to small animals, which was introduced by Professor Hobday to the members of the Central Veterinary Medical Association at their meeting in February last.

The method of application is to secure the animal firmly in such a way that respiration is not in any way interfered with, apply the mask to the face, and let an assistant work the bellows. The supply of air admitted at the open end of the mask must be regulated by the hand at the discretion of the anæsthetist.

The apparatus has had thorough trial in the Free Clinique of the Royal Veterinary College, anæsthesia having been produced in 100 dogs for times varying from a few minutes to over three hours. These animals were not, except in three cases, in any way prepared, and were in all kinds of condition, the operations including such severe tests as amputation of limbs, ovariectomy, reduction of hernia, &c.

The chief advantages claimed for the apparatus are, first, its safety from the chance of administering an overdose, as with four drachms in the bottle only about one-fifth of a minim of chloroform vapour well mixed with air can be forced into the mask at each pressure of the bellows, whilst with one drachm in the bottle this becomes reduced to one-twelfth of a minim; this can be still further reduced by means of the tap, and by pressing the bellows slowly; secondly, that by only allowing the vapour to come in contact with the animal's nose there is no rubefacient or irritant effect produced; and, thirdly, recovery afterwards is rapid, and not attended with any great amount of nausea or depression. The saving of chloroform is too obvious to need comment. For a small dog it takes from three to six minutes to produce complete anæsthesia, and in a large one from five to ten minutes. It has also been tried on the pig, sheep, and calf, but for the last two animals the mask requires modification in shape, so as not to press on the wings of the nostrils.

Price, with stand for bottle, complete

...

...

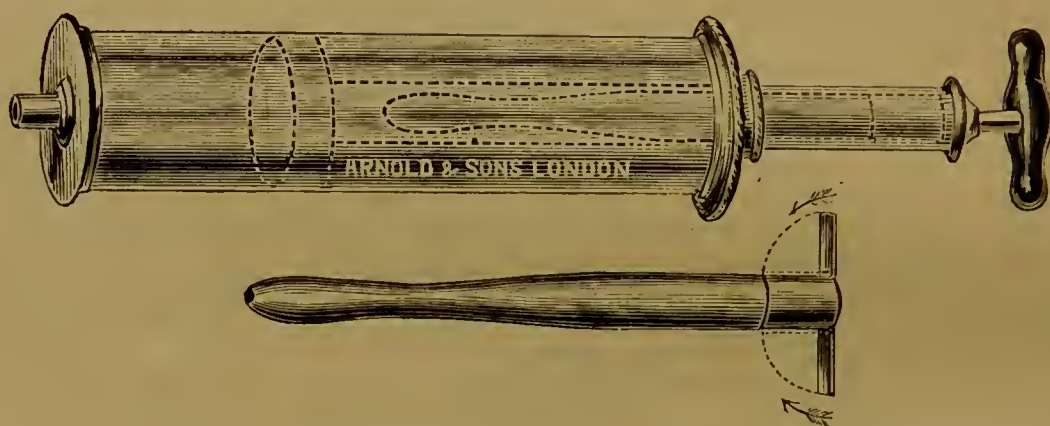
...

£1 5 6



## IMPROVED BRASS CLYSTER SYRINGE.

SUGGESTED BY FRANK W. DOWELL, M.R.C.V.S.



The improvement in this syringe consists in the nozzle plugging on to the barrel instead of screwing. The advantage of this is that it is not necessary to withdraw the nozzle when the syringe requires refilling, the act of withdrawing the nozzle often having the effect of making the horse expel the liquid that has just been injected.

The nozzle is fitted with flanges, which give a good grip to the hand when the fluid is being forced in, and at the same time prevents the well-oiled nozzle from slipping in altogether. These flanges are made to fold down, and the nozzle can therefore be put into the piston rod as in the old syringe.

A long flexible tube can easily be fitted to the same syringe, and it can then be used for flushing out a mare's uterus, &c.

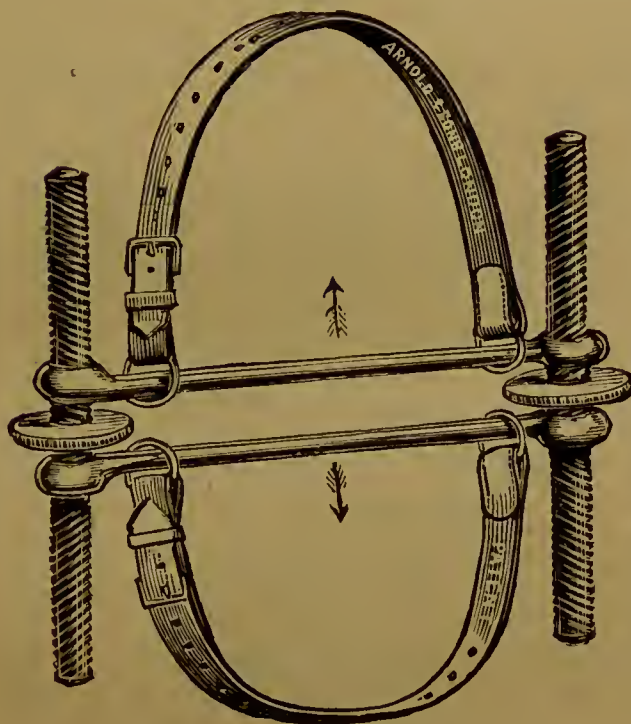
|                           |     |     |     |     |    |   |   |
|---------------------------|-----|-----|-----|-----|----|---|---|
| Price, complete (1 quart) | ... | ... | ... | ... | £1 | 5 | 6 |
|---------------------------|-----|-----|-----|-----|----|---|---|



# NEW DOG GAG.

(PATENTED.)

SUGGESTED BY PROFESSOR HOBDAY.



Extract from *The Veterinary Record*, Feb. 15th, 1896 : “ Below is a description of an instrument designed to open the mouth of the dog, which was introduced by Professor Hobday to the members of the Central Veterinary Medical Association at their meeting in December last. It consists of two screws, one on either side, which are made to revolve by a centre nut, and two bars which move towards one another (or *vice versa*) when the nuts are turned. Upon these bars are straps for passing over the upper and lower jaws, and sliding loosely in such a manner that they can be adjusted to any size of animal. With the exception of the straps, the instrument is made entirely of metal, and so can be kept thoroughly clean and aseptic. It is made of a new metal, which is beautifully smooth and soft to the touch (thus dispensing with rubber coverings, which soon become injured and dirty), and will not corrode or rust in any way.

“ The method of application is as follows : Secure the patient firmly by the aid of an assistant, or on an operating table, and place the closed gag in the animal’s mouth, tightening the straps which pass over the upper and lower jaws. When ready to open the mouth, turn the two screws together equally and steadily, and the jaws will be slowly forced apart. It has been thoroughly tested on all breeds of dogs, and will be found of service when wishing to extract teeth, or to examine the mouth in order to remove bones, needles, or other foreign bodies which are frequently found there.

“ The article can be obtained from MESSRS. ARNOLD & SONS, of West Smithfield, who are the manufacturers and patentees.”

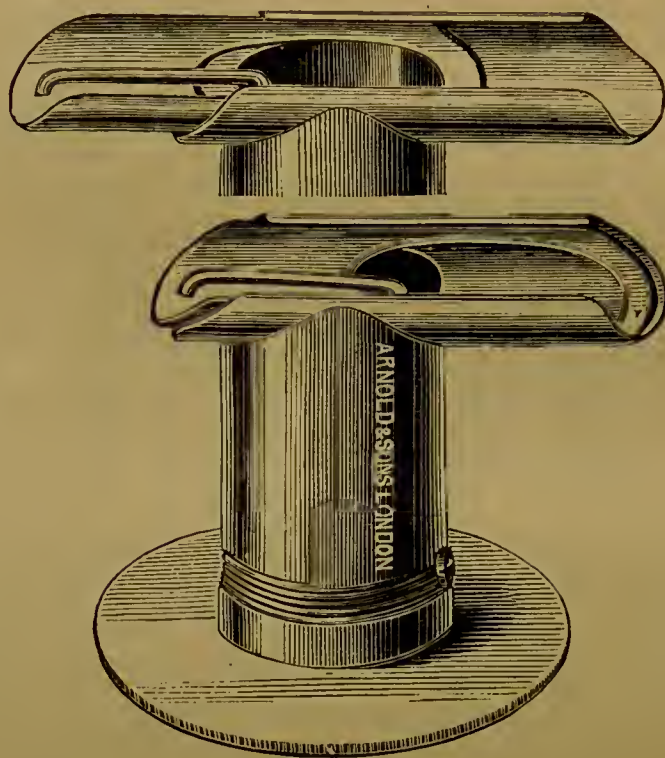
Price, complete      ...      ...      ...      ...      ...      £0   9   6



# IMPROVED TRACHEOTOMY TUBE.

(PATENTED.)

SUGGESTED BY R. C. THOMPSON, M.R.C.V.S.



Extract from *The Veterinarian*, Jan., 1896: "The annexed is an illustration of a new Tracheotomy Tube invented by Mr. R. C. Thompson, M.R.C.V.S., Doncaster.

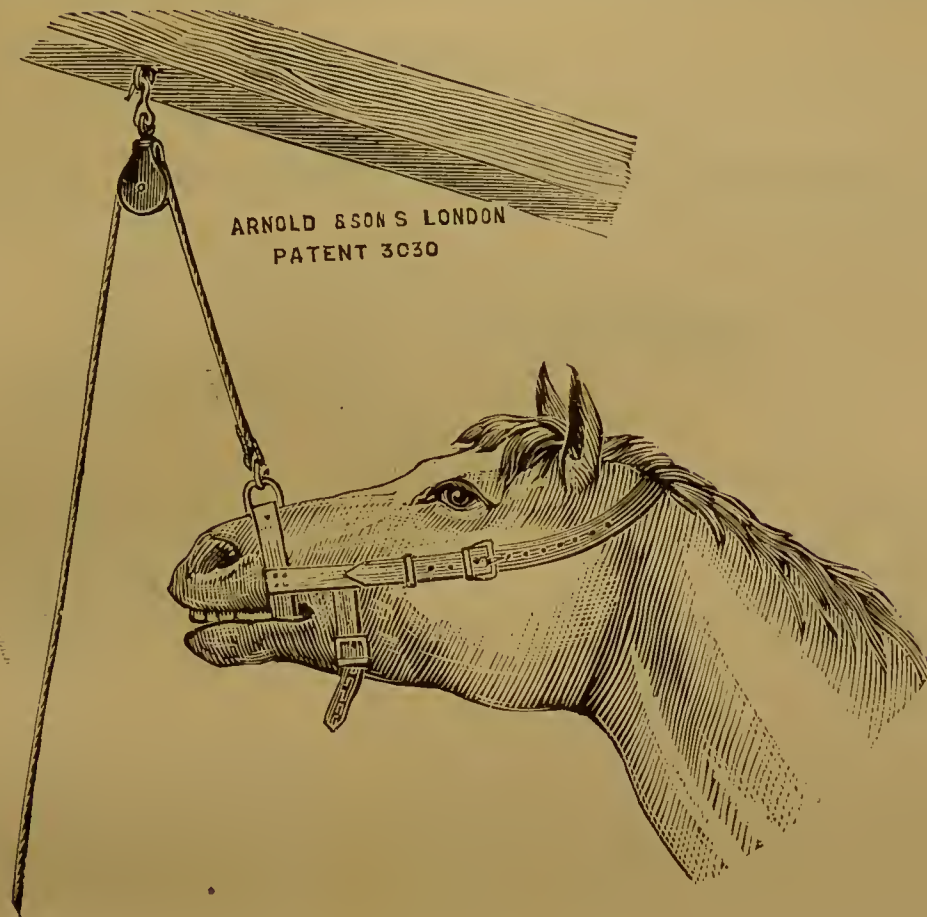
"Its chief advantages are its simplicity and its self-locking arrangement, no separate pieces being required after it is once introduced into the trachea. Mr. Thompson has used it for two years, and in every case found it to act satisfactorily.

"Messrs. ARNOLD & SONS, of West Smithfield, are the sole agents."

Price     ...     ...     ...     ...     ...     £1   5   0



## FROST'S PATENT DRENCHING BRIDLE.



Extract from *The Veterinarian*, Dec., 1895: "By its aid one man can give a drink to any horse without assistance.

"It is easily adjusted, simple, effectual, and causes the animal no pain, while it is useful for operations like clipping single-handed, or dressing a restive horse.

"The holder fits in the mouth like a bridle, the flat leather pressing against the roof of the mouth between the incisors and molars, and presenting no impediment to the introduction of a bottle or balling gun. The strap under lower jaw should be somewhat loose, as a little freedom of the jaw is necessary."

Extract from *The Veterinary Record*, Jan. 18th, 1896: "The accompanying sketch is that of a device for holding up the heads of horses and cattle whilst giving drinks, balls, paste, or any kind of medicine.

"Messrs. ARNOLD & SONS, West Smithfield, London, are the sole agents for the sale of this appliance."

COPY OF LETTER RECEIVED FROM THE DUKE OF MARLBOROUGH'S AGENT.

BLENHEIM PALACE,  
WOODSTOCK.

DEAR SIR,

Your Drenching Bridle is a first-rate invention, and if my name is of any use to you I hope you will quote it.

Yours faithfully,  
R. L. ANGAS.

COPY OF LETTER RECEIVED FROM R. J. VERNEY, M.R.C.V.S.

I consider it a very useful requisite in any stable, as it enables one man to do easily that which otherwise two or three have some difficulty in doing.

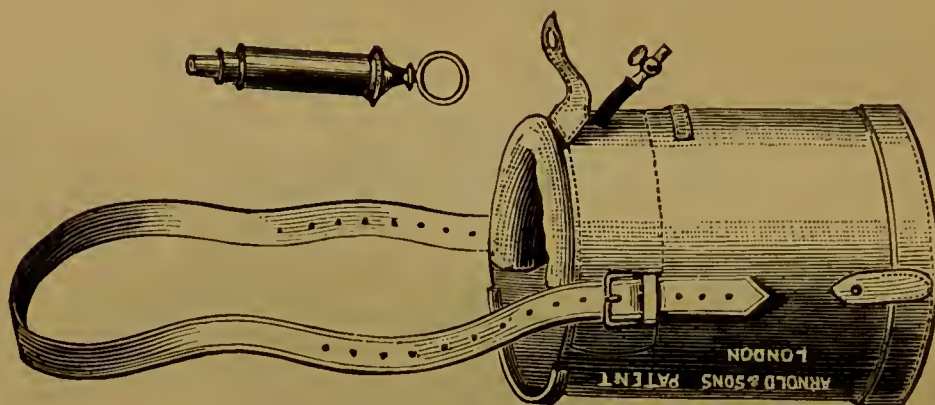
|  |     |     |    |   |   |
|--|-----|-----|----|---|---|
| Price, with rope and pulley complete, large size | ... | ... | £0 | 7 | 6 |
| Ditto ditto ditto small size                     | ... | ... | 0  | 6 | 6 |



# THE "DOWELL" CHLOROFORM MUZZLE.

(PATENTED.)

SUGGESTED BY FRANK W. DOWELL, M.R.C.V.S.



Extract from *The Veterinary Record*, Dec. 7th, 1895 : "The illustration shows a new form of chloroform muzzle, invented by Mr. Dowell, 128, Jermyn Street, W., which has been used with considerable success."

Extract from *The Veterinarian*, Nov., 1895 : "Having cast and secured the horse, remove the cap and put the muzzle over the upper jaw, the edge opposite the rubber tube and stopcock being in the horse's mouth. Fit the head-strap behind the ears, and then proceed to blow up the pneumatic pad with the brass pump until the upper edge of the muzzle fits the horse's face, being careful not to make it fit so close as to compress and occlude the nasal chambers. Now attach the cap to the lower button on the muzzle, place the chloroformed sponge on the wire grating, and close the cap, leaving the sliding ventilator open. Should the horse struggle a great deal, undo the top button and let air in under the cap. After the horse is once under the influence of the chloroform the cap and ventilator should be closed, as he will get plenty of air through the mouth, the soft palate having become paralysed. The tongue should always be held by the assistant, as it is apt to become lacerated by the teeth when the horse is coming round, and it always acts as a good index of the stage of anæsthesia that the animal is in.

"The patentees and manufacturers are Messrs. ARNOLD & SONS, of West Smithfield, London."

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*Vide The Veterinary Journal*, Dec., 1895.

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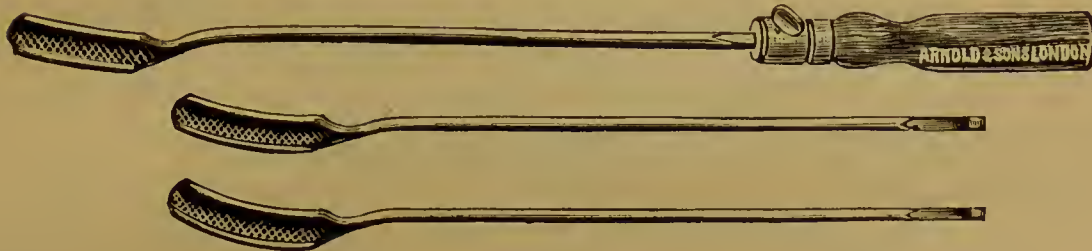
Price, with brass inflating pump and stopcock, complete

... £1 10 0



# SINGLE MOLAR TOOTH RASPS.

SUGGESTED BY VET. MAJOR MATTHEWS, A.V.D.



Extract from *The Veterinarian*: "The great amount of care now devoted to minor every-day operations in equine dental surgery has produced a variety of rasps calculated for use on single molars, as opposed to the 'old-time' system of wholesale reduction by 6 in. and 8 in. rasps. Those I now wish to place before the profession have been constructed with considerable care by MESSRS. ARNOLD & SONS, whom I have to thank for the minute attention they have bestowed on their construction, and they are the ones I recommend to be used in my paper on 'Dentistry,' in the fourth edition of Sir F. Fitzwygram's 'Horses and Stables.'

" Their advantages may be enumerated as follows :—

" 1. The lightness of the 'business' or operating end readily allows of their use with one hand.

" 2. Their 'lateral guards' offer sufficient guarantee against injury to buccal membrane, and assist to retain rasp surface on the tooth operated on—difficulties I have more than once encountered in operating with somewhat similar rasps without them.

" 3. The three rasp heads vary in their curves, in view of more ready adjustment to varying conditions of abnormal growth.

" 4. The fact of the shafts fastening into a handle by a screw does away with the risk of a short head-piece becoming detached in the mouth, and possibly swallowed during the operation, which is liable to happen with the latter, as the thread of a screw joint becomes loose from wear.

" The past ten or twelve years have witnessed a marvellous advance in knowledge of equine dental development with its accompanying ailments, and many practitioners possess sufficient dexterity to manipulate and operate on the molars, even to fifth or sixth, without balling-iron or other restraint, though few, I think, will dispute their need for complicated cases. As we all know, keeping the horse's jaws from closing during manipulation is a matter of skill, the result of practice, combined, as it always must be, with unfailing patience. Few branches of our profession are more interesting than dentistry, and none offer so sure a prospect of substantial pecuniary reward as does this one to the specialist who establishes himself at one or other of our great racing centres.

" It would be idle in addressing professional men to dwell on the vast advantage of the modern system of individual treatment of molars, compared with the collective practice of the past."

Price, with 3 rasps and socket handle, complete

...

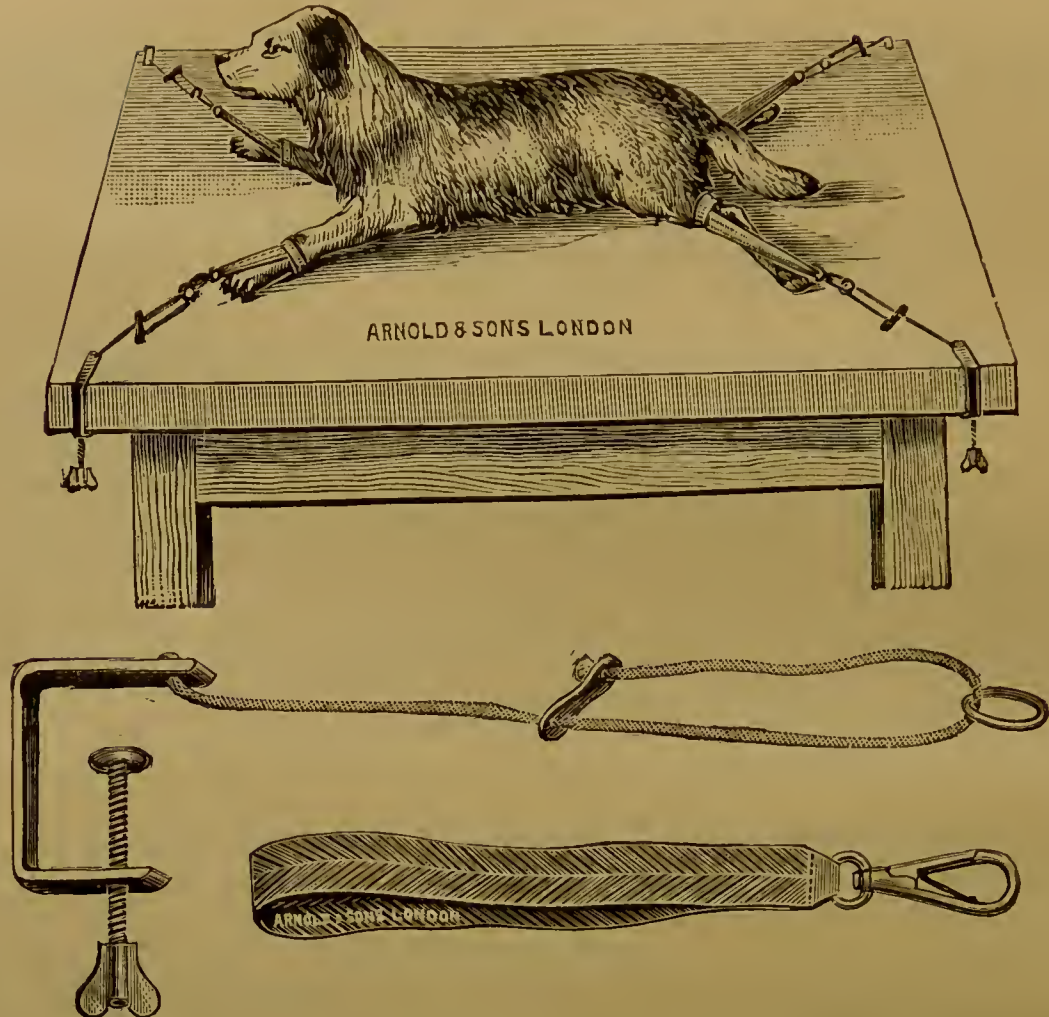
... £1 5 0



# DOG HOBBLER.

(PATENTED.)

SUGGESTED BY PROFESSOR HOBDAV.



Extract from *The Veterinarian*, June, 1895: "Below is a description of a set of hobbles for securing dogs and other small animals, which were introduced by Prof. Hobday to the Central Veterinary Medical Society at their meeting in March last.

"Each consists of a clamp of metal, to which is attached a cord, with sliding rod and ring, and a hobble made of strong webbing.

"The clamps are fixed on the edges of a table or board (usually at either end), and the cords spread on the surface, with the rings towards the centre.

"The animal is lifted on to the table, a hobble placed around each leg, drawn tight, and fixed by the clasp to the ring on the cords. By means of the sliding rod the cords are drawn tight, and the animal fixed in whatever position is considered necessary.

"The hobbles will commend themselves to the profession for their simplicity, utility, portability, and cheapness. They occupy very little space, are easily carried in the pocket, can be fixed in a few moments to any table, or even to a stout wide board, and will fit any size of animal. Every veterinary surgeon who has had to do with dogs or cats must have experienced the difficulty in securing them to perform operations, or even to administer medicines. These hobbles perfectly overcome the difficulty, and, if properly applied, *i.e.*, just so tightly that the animal cannot struggle, there is no chance of injury. They have been thoroughly tested on a large number of varied cases (one being amputation of hind leg, and another an operation for strabismus), and have always given entire satisfaction, whether the dog or cat be placed on its back, side, or abdomen.

"Messrs. ARNOLD & SONS, of West Smithfield, are the patentees and makers."

*Vide The Veterinary Record*, May 25th, 1895.

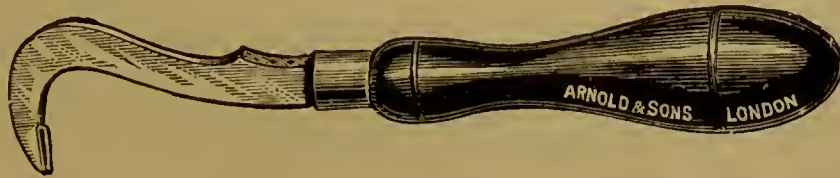
Price per set, in case complete ... ..

£0 7 6



## INSTRUMENT FOR HOOF SECTION.

SUGGESTED BY VET. CAPT. SMITH, A.V.D.



Extract from *The Veterinarian*, May, 1895: "A new instrument has been brought out by Messrs. ARNOLD & SONS for the purpose of facilitating the cutting through of the wall of the foot in Smith's operation. It is known as a hoof plane, and it cuts a wide groove from the coronet to ground surface, and as deep as the white line, in the course of a minute or so."

Extract from *The Veterinary Journal*, June, 1895: "To those who practise hoof section this instrument will be found of value as a time and labour-saving appliance."

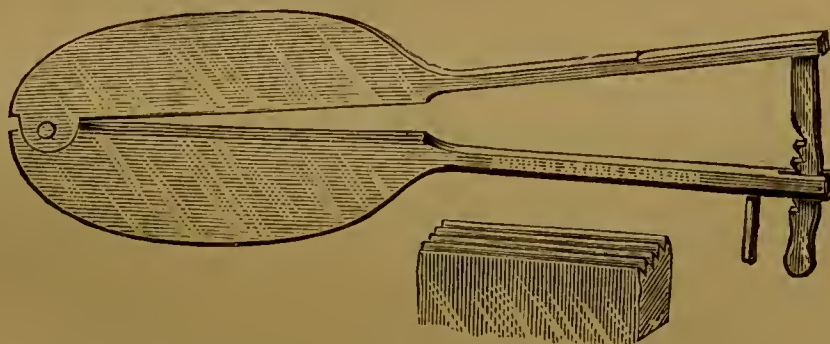
Extract from *The Veterinary Record*, May, 1895: "A difficulty always exists in cutting through the piece of wall under the coronary secreting substance. This is said to be greatly facilitated by the hoof plane, which is used in short strokes and worked *upwards* against the piece of horn, which it entirely cuts or scrapes away in a few well applied strokes."

Price ... .. £0 6 6

## IMPROVED CASTRATING CLAMS.

(PATENTED.)

SUGGESTED BY E. WALLIS HOARE, F.R.C.V.S.



Extract from *The Veterinary Record*, Nov. 9th, 1895: "The blades meet very closely together, and the opposing surfaces possess deep grooves which fit accurately into each other after the manner of an artery forceps. These grooves are longitudinal, and when the instrument is applied to the vascular portion of the spermatic cord, the latter is very firmly compressed so that torsion of the artery is effected in an expeditious manner, when the forceps are applied."

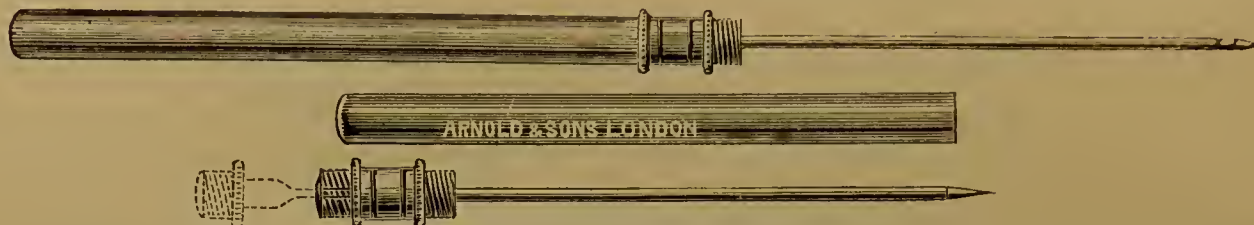
"The blades of the instrument are thin, so that only the smallest amount possible of bruised tissue is left behind, a point of great importance in the operation."

"The blades are wide, so that the torsion forceps can be worked without interference, this advantage being especially observed when the operation is performed with the animal lying on his side."

Price, nickel-plated ... .. £0 15 0

## IMPROVED INSTRUMENT FOR PUNCTURING HORSE'S ABDOMEN.

SUGGESTED BY FRANK W. DOWELL, M.R.C.V.S.



This instrument is made with a spear-shaped point, as the opening into the bowel will then be only a fine slit, which will be smaller, and heal easier than a hole made with a trocar-pointed instrument. It is made long so as to insure its passing well through the bowel wall. The cannula has a very fine bore, which will be found amply large enough to allow the gas to escape, but will not be so liable to become choked with faeces as an instrument with a larger bore would. The cap or cover will insure the point from injury.

|                                     |     |     |     |         |
|-------------------------------------|-----|-----|-----|---------|
| Price, in gilt metal case, complete | ... | ... | ... | £0 10 6 |
| Leather pull-off case for above     | ... | ... | ... | 0 1 6   |

## IMPROVED SHOEING HAMMER, PINCERS, &c.

SUGGESTED BY FRANK W. DOWELL, M.R.C.V.S

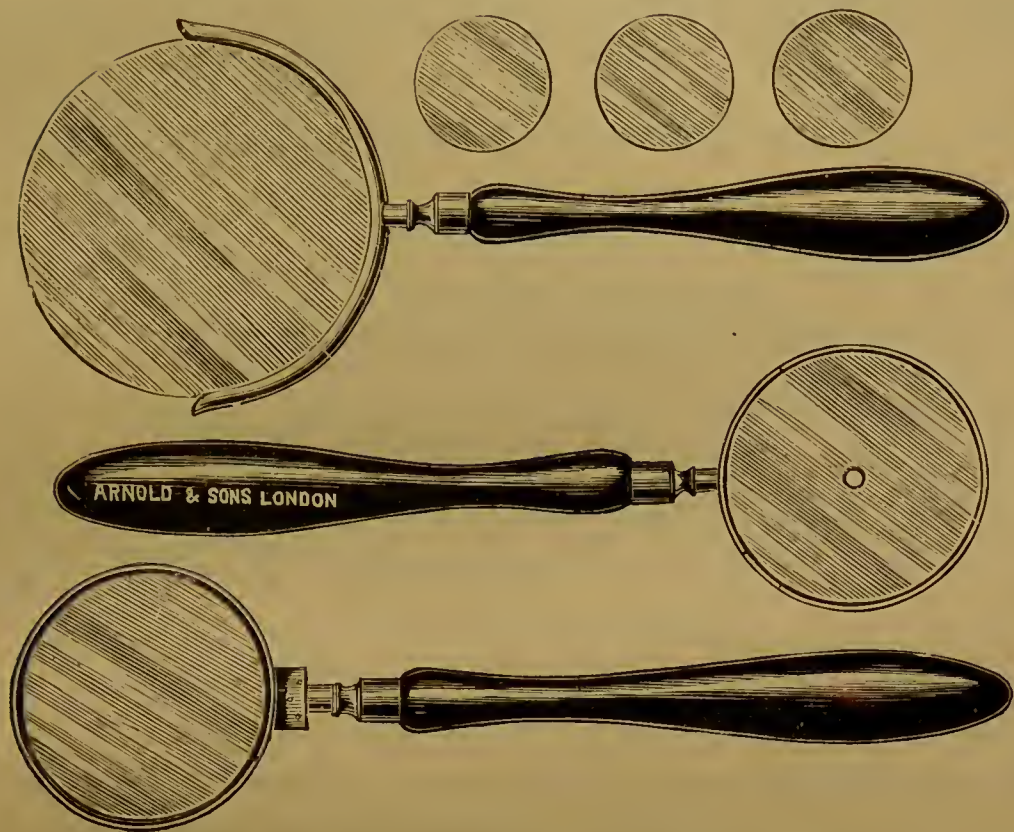


|  |     |     |     |         |
|--|-----|-----|-----|---------|
| Price, shoeing hammer, buffer, and pincers combined, with improved joint, to take apart, nickel-plated | ... | ... | ... | £1 10 0 |
|--|-----|-----|-----|---------|



NEW OPHTHALMOSCOPE.

SUGGESTED BY VET. CAPT. F. SMITH, A.V.D.

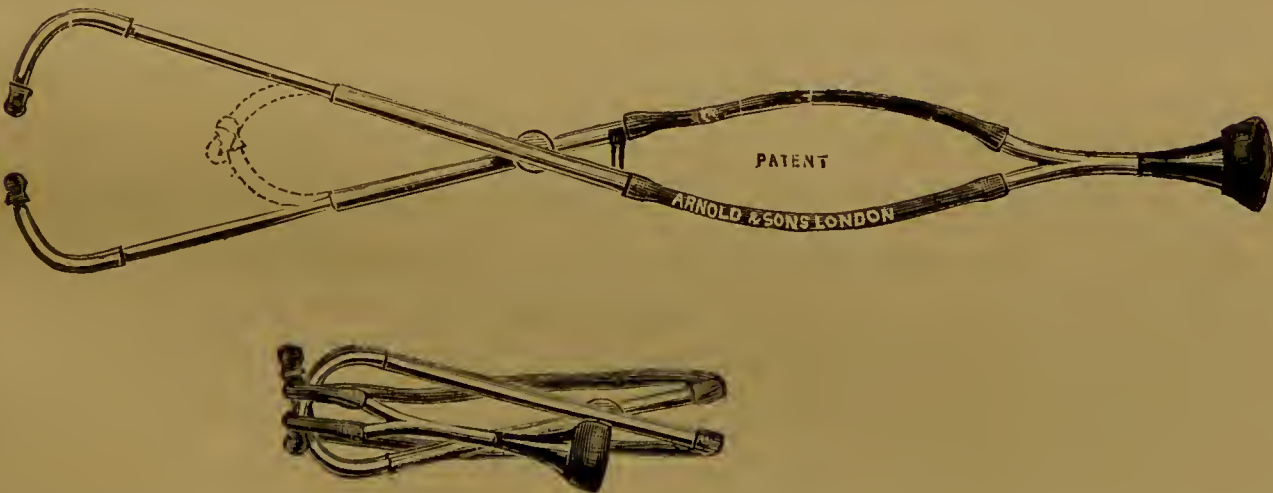


Vide *The Journal of Comparative Pathology*, June, 1894.

Price, in leather case, complete ... .. £1 15 0

“RELIANCE” STETHOSCOPE.

(PATENTED.)

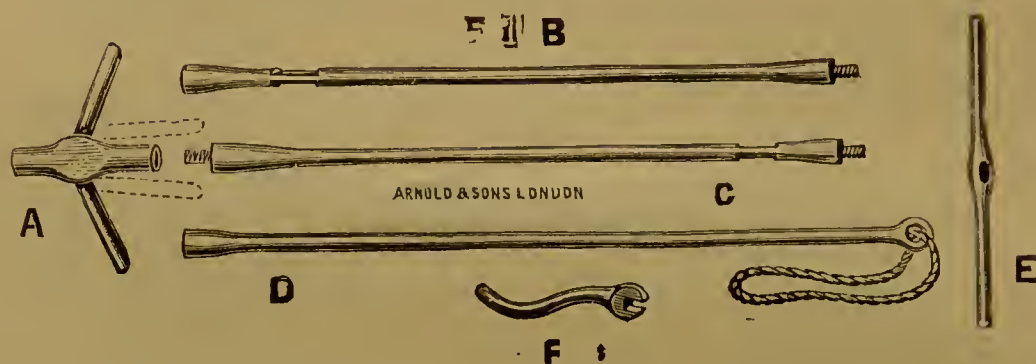


The above illustration shows a very portable Binaural Stethoscope. It possesses the following advantages, viz., being telescopic it fits into a very small compass ; the metal tubes are made oval to prevent turning round ; the metal is the same colour throughout, and does not corrode ; the ear pieces are made of India-rubber, and therefore softer for the ears, and the chest piece has an India-rubber air pad cover.

Price, complete ... .. £0 12 6  
Ditto in portable leather case ... .. 0 14 0

## NEW PARTURITION INSTRUMENTS.

SUGGESTED BY FRANK W. DOWELL, M.R.C.V.S.

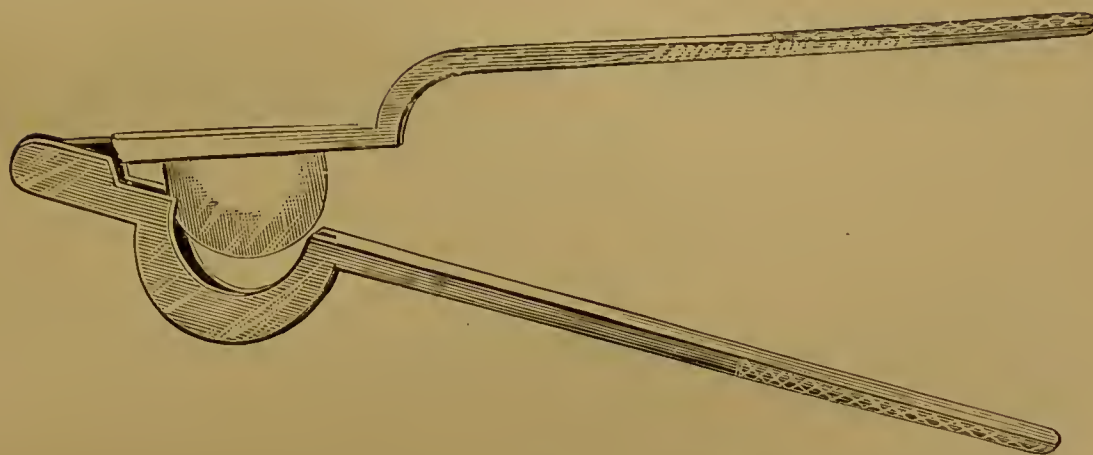


The above represents an improved set of parturition instruments. Fig. A fits on the end of a long rod, with cross handle, Figs. B, C and E. When screwed on with the wings pointing forwards it acts as a repeller; when reversed on the rod, it is useful in a case of breech presentation, the hind legs pointing directly forward. The foetus being dead, the anus of the foetus is enlarged with an embryotomy knife and the instrument forced well into the abdomen; to do this it will be found advisable to have a cord attached to the tail of the foetus, held by an assistant. On attempting to withdraw the instrument, the wings will open and catch against the brim of the pelvis; when a tackle may be applied to the cross handle, which is outside the mare's vulva. Fig. D fits on to Figs. C and E, and will be found useful when the foot, ear, or muzzle of the foetus is just out of reach of the operator's hand. The rope grummet at the end of the rod has copper wire in it, and will therefore keep any shape it may be put into, before it enters the mare's vulva. Having passed the hand in, with the loop of the grummet just beyond the tips of the fingers, place it over the part wanted, and let an assistant twist the handle, when it will be found possible to hold anything, no matter how slippery it may be. This instrument, unless used very gently, is only applicable in cases in which the foetus is dead, as it would be quite possible to cut the muzzle of the foetus off if sufficient force is used in twisting the handle. Fig. F is a spanner for tightening the rods.

|                                  |     |     |     |     |        |
|----------------------------------|-----|-----|-----|-----|--------|
| Price for complete set, as above | ... | ... | ... | ... | £1 8 6 |
|----------------------------------|-----|-----|-----|-----|--------|



## IMPROVED DOCKING MACHINE.



COPY OF LETTER RECEIVED.

GENTLEMEN,

I am very pleased with the Docking Machine you have made me from the pattern of the one I sent you. I have used that pattern of Docking Machine for nearly forty years. I consider it by far the best I have ever seen.

Yours faithfully,

HENRY ALLNUTT,

*Her Majesty's Veterinary Surgeon at Windsor.*

Price, with steel handles, complete ... £1 15 0

## THE ANIMALS THERMOMETER.

(PATENTED.)

SUGGESTED BY PROFESSOR HOBDAY.

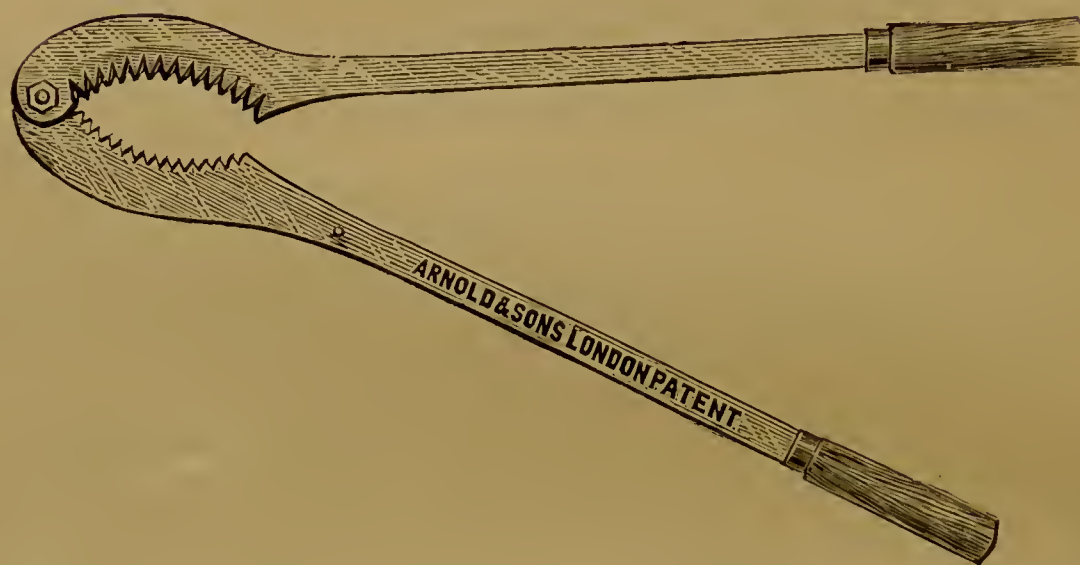


A thermometer, especially designed to indicate a fair average normal temperature for each of the domesticated animals and the fowl, in health, was introduced by Professor Hobday to the notice of the members of the Central Veterinary Medical Association at their meeting in December last. It differs from the thermometer in general use at present, by the fact that arrows are added at intervals on the stem to mark the average normal rectal temperature of each of the domesticated animals and the fowl; in the usual thermometer the only arrow is placed at  $98^{\circ}4$ , indicating the normal average of man when taken by the mouth or axilla. The results are based upon about 2,000 observations made with one of ARNOLD & SONS' Kew Tested Thermometers, during a period of twelve months, on a large number of animals and birds in various parts of England under varying conditions. As shown in the sketch the horse is placed at  $100^{\circ}2$ , the cow, dog and cat at  $101^{\circ}4$ , the pig at  $102^{\circ}6$ , the sheep at  $104^{\circ}$ , and the fowl at  $107^{\circ}$ . In taking these figures into account, as pointed out at the meeting, one must be aware that confinement, exercise, work, excitement, food, age, external temperature and other things, tend to cause variations to a greater or less extent, according to the temperament and condition of the animal under observation.

Price, in nickel-plated case, complete ... £0 3 6

## “RELIANCE” TAIL CUTTER.

(PATENTED.)

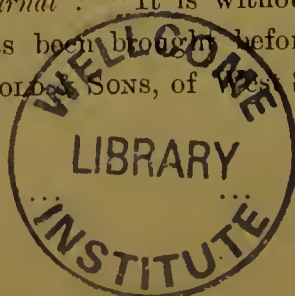


Extract from *The Veterinary Record*: “Having tried a similar shaped instrument, but without the serrated edge, we confess to having been very sceptical before using the ‘Reliance.’ It worked admirably, and the ease with which it went through the hair of some bushy tails established its right to the name. Cutting a horse’s tail seems an easy matter, and to the amateur who knows nothing of the artistic points of the equine toilet there is no difficulty. Here and there a man may be found who can produce all the effects wanted by the aid of a long pair of scissors—but the average man cannot, and to him we recommend the ‘Reliance’ Tail Cutter as invaluable. No large stable should be without it.”

Extract from *The Veterinarian*: “The ‘Reliance’ is a new form of Tail Cutter for squaring horses’ tails. It has many advantages over all existing patterns. First—It has two curved blades consisting of a number of small teeth, which prevent the hair or any other substance from slipping, as with the ordinary instrument. Second—When the blades are drawn together, the teeth are so arranged that, on passing each other, anything that may be between them is cut evenly and easily. Third—It does not drag like ordinary shears, on account of the blades having teeth and being curved. Fourth—At the extreme end a nut fixes the two blades together, by which greater leverage is obtained, and therefore much easier for cutting.”

Extract from *The Veterinary Journal*: “It is without doubt the quickest, best, cheapest, and most reliable instrument that has been brought before the notice of the profession. The patentees and makers are Messrs. ARNOLD & SONS, of West Smithfield, London.”

Price ... ..



... .. £1 1 0































































































